

# Fast Ethernet Switches

**Compact,  
auto-negotiating  
two-port  
10/100 Mbps  
switch**



- > Bridges 10 Mbps Ethernet and 100 Mbps Fast Ethernet network segments
- > Routing table stores up to 4000 MAC addresses
- > Adaptive cut-through switching delivers peak performance in all environments

## 10/100 Mbps Ethernet Switch

The Digi 5220 Family of two-port 10/100 Mbps auto-negotiating Ethernet switches have either two unshielded twisted pair (UTP) ports or one UTP and one fiber optic port. These switches provide an easy, cost-effective method for migrating to Fast Ethernet while preserving the Ethernet LAN.

The 5220 Family functions as a bridge, storing the address and corresponding port number of each incoming and outgoing packet in a routing table capable of storing 4000 MAC addresses.

These converters use adaptive cut-through switching based on a unique algorithm. This switching procedure

dynamically changes data handling methods based on the current error rate.

The 5220 Family starts with standard cut-through switching for a clean data environment, changes to fragment-free cut-through for a moderate error rate environment, and progresses to store-and-forward for a highly contentious environment. Adaptive cut-through switching delivers the best network performance in any environment.

The 5220 effectively separates collision domains and is an excellent front-end to repeaters and hubs. International versions of the 5220 Family are also available.



**Connectability**

## FEATURES

- > Speed, mode and media conversion
- > 10/100 Mbps auto-negotiating two-port bridge
- > Fiber port that can be configured for half- or full-duplex mode
- > Fragment-free cut-through, standard cut-through and store-and-forward switching used in an adaptive cut-through switching algorithm
- > Back pressure that eliminates frame loss when buffers are full
- > Per port buffer of 160 Kbps
- > Routing table that contains 4096 entries to store node MAC addresses
- > Indicator panel for configuring the switch or monitoring the overall condition of the switch
- > Frame filtering and forwarding functions for each port, which are capable of filtering and forwarding 100% of all Ethernet packets at line speed
- > Per port LEDs for link, transmit, receiver duplex mode and speed
- > Latency of less than 20 microseconds

## PORT LEDs

- > LNX indicates the port sees a LINK signal detect
- > TX indicates the port is transmitting
- > RX indicates the port is receiving
- > Full indicates the fiber port is operating in full duplex
- > 100 indicates the port is operating at 100 Mbps speed

## SYSTEM LEDs

- > PWR: Indicates the presence of POWER on the unit
- > Six display mode LEDs

## INTERFACES

### 5220TX

- > Two UTP ports (two RJ-45 connectors per port, MDI/MDIX)

### 5220FXC

- > One UTP port (one RJ-45 connector per port, MDI/MDIX)
- > One multi-mode fiber optic port with an SC connector

### 5220FXT

- > One UTP port (two RJ-45 connectors per port, MDI/MDIX)
- > One multi-mode fiber optic port with an ST connector

## REGULATORY APPROVALS

- > FCC Class A
- > CE Mark
- > EN55022 Class B (CISPR 22)
- > UL 1950
- > CSA 22.2 No. 950
- > EN60950 (TUV)

## POWER REQUIREMENTS

- (Internal supply)
- > Ranging 110 VAC - 220 VAC, 50 - 60 Hz, 400 ma

## ENVIRONMENTAL

- > Operating temperature: 5°C to 50°C (41°F to 122°F)
- > Relative humidity: 10% to 95% (non-condensing)
- > Altitude: 0 to 3,660 m (0 to 12,000 feet)

## DIGI SERVICE AND SUPPORT

You can purchase with confidence knowing that Digi is here to support you with expert technical support, a strong five-year warranty and a 30-day money-back guarantee.

## MODEL/PART NUMBERS

2-port 10/100 Mbps Switch, 2 UTP ports  
 International MIL-5220TX  
 MIL-5220TXIN

2-port 10/100 Mbps Switch, 1 UTP port, one multi-mode fiber optic port with an SC connector  
 International MIL-5220FXC  
 MIL-5220FXCIN

2-port 10/100 Mbps Switch, 1 UTP port, one multi-mode fiber optic port with an ST connector  
 International MIL-5220FXT  
 MIL-5220FXTIN

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**Connectability**